

SEQUENCE LISTING

<110> Zhou, Xiao-Mai

<120> COMPOUNDS AND METHODS FOR REGULATING APOPTOSIS,
AND METHODS OF MAKING AND SCREENING FOR COMPOUNDS
THAT REGULATE APOPTOSIS

<130> A7483

<140>

<141>

<160> 20

<170> PatentIn Ver. 2.1

<210> 1

<211> 168

<212> PRT

<213> Homo sapiens

<400> 1

Met Phe Gln Ile Pro Glu Phe Glu Pro Ser Glu Gln Glu Asp Ser Ser
1 5 10 15

Ser Ala Glu Arg Gly Leu Gly Pro Ser Pro Ala Gly Asp Gly Pro Ser
20 25 30

Gly Ser Gly Lys His His Arg Gln Ala Pro Gly Leu Leu Trp Asp Ala
35 40 45

Ser His Gln Gln Glu Gln Pro Thr Ser Ser Ser His His Gly Gly Ala
50 55 60

Gly Ala Val Glu Ile Arg Ser Arg His Ser Ser Tyr Pro Ala Gly Thr
65 70 75 80

Glu Asp Asp Glu Gly Met Gly Glu Glu Pro Ser Pro Phe Arg Gly Arg
85 90 95

Ser Arg Ser Ala Pro Pro Asn Leu Trp Ala Ala Gln Arg Tyr Gly Arg
100 105 110

Glu Leu Arg Arg Met Ser Asp Glu Phe Val Asp Ser Phe Lys Lys Gly
115 120 125

Leu Pro Arg Pro Lys Ser Ala Gly Thr Ala Thr Gln Met Arg Gln Ser
130 135 140

Ser Ser Trp Thr Arg Val Phe Gln Ser Trp Trp Asp Arg Asn Leu Gly
145 150 155 160

Arg Gly Ser Ser Ala Pro Ser Gln
165

<210> 2
 <211> 204
 <212> PRT
 <213> Mus musculus

<400> 2
 Met Gly Thr Pro Lys Gln Pro Ser Leu Ala Pro Ala His Ala Leu Gly
 1 5 10 15
 Leu Arg Lys Ser Asp Pro Gly Ile Arg Ser Leu Gly Ser Asp Ala Gly
 20 25 30
 Gly Arg Arg Trp Arg Pro Ala Ala Gln Ser Met Phe Gln Ile Pro Glu
 35 40 45
 Phe Glu Pro Ser Glu Gln Glu Asp Ala Ser Ala Thr Asp Arg Gly Leu
 50 55 60
 Gly Pro Ser Leu Thr Glu Asp Gln Pro Gly Pro Tyr Leu Ala Pro Gly
 65 70 75 80
 Leu Leu Gly Ser Asn Ile His Gln Gln Gly Arg Ala Ala Thr Asn Ser
 85 90 95
 His His Gly Gly Ala Gly Ala Met Glu Thr Arg Ser Arg His Ser Ser
 100 105 110
 Tyr Pro Ala Gly Thr Glu Glu Asp Glu Gly Met Glu Glu Glu Leu Ser
 115 120 125
 Pro Phe Arg Gly Arg Ser Arg Ser Ala Pro Pro Asn Leu Trp Ala Ala
 130 135 140
 Gln Arg Tyr Gly Arg Glu Leu Arg Arg Met Ser Asp Glu Phe Glu Gly
 145 150 155 160
 Ser Phe Lys Gly Leu Pro Arg Pro Lys Ser Ala Gly Thr Ala Thr Gln
 165 170 175
 Met Arg Gln Ser Ala Gly Trp Thr Arg Ile Ile Gln Ser Trp Trp Asp
 180 185 190
 Arg Asn Leu Gly Lys Gly Gly Ser Thr Pro Ser Gln
 195 200

<210> 3
 <211> 162
 <212> PRT
 <213> Mus musculus

<400> 3
 Met Phe Gln Ile Pro Glu Phe Glu Pro Ser Glu Gln Glu Asp Ala Ser

1	5	10	15
Ala Thr Asp Arg Gly Leu Gly Pro Ser Leu Thr Glu Asp Gln Pro Gly	20	25	30
Pro Tyr Leu Ala Pro Gly Leu Leu Gly Ser Asn Ile His Gln Gln Gly	35	40	45
Arg Ala Ala Thr Asn Ser His His Gly Gly Ala Gly Ala Met Glu Thr	50	55	60
Arg Ser Arg His Ser Ser Tyr Pro Ala Gly Thr Glu Glu Asp Glu Gly	65	70	75
Met Glu Glu Glu Leu Ser Pro Phe Arg Gly Arg Ser Arg Ser Ala Pro	85	90	95
Pro Asn Leu Trp Ala Ala Gln Arg Tyr Gly Arg Glu Leu Arg Arg Met	100	105	110
Ser Asp Glu Phe Glu Gly Ser Phe Lys Gly Leu Pro Arg Pro Lys Ser	115	120	125
Ala Gly Thr Ala Thr Gln Met Arg Gln Ser Ala Gly Trp Thr Arg Ile	130	135	140
Ile Gln Ser Trp Trp Asp Arg Asn Leu Gly Lys Gly Gly Ser Thr Pro	145	150	155
Ser Gln			160

<210> 4
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: BAD BH3
 consensus sequence

<400> 4
Ala Ala Gln Arg Tyr Gly Arg Glu Leu Arg Arg Met Ser Asp Glu Phe
1 5 10 15
Val Asp Ser Phe Lys Lys Gly Leu Pro Arg
20 25

<210> 5
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: BAK BH3
consensus sequence

<400> 5

Thr Met Gly Gln Val Gly Arg Gln Leu Ala Ile Ile Gly Asp Asp Ile
1 5 10 15

Asn Arg Arg Tyr Asp Ser Glu Phe Gln Thr
20 25

<210> 6

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: BAX BH3
consensus sequence

<400> 6

Ser Thr Lys Lys Leu Ser Glu Cys Leu Lys Arg Ile Gly Asp Glu Leu
1 5 10 15

Asp Ser Asn Met Glu Leu Gln Arg Met Ile
20 25

<210> 7

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: BIK BH3
consensus sequence

<400> 7

Gly Ser Asp Ala Leu Ala Leu Arg Leu Ala Cys Ile Gly Asp Glu Met
1 5 10 15

Asp Val Ser Leu Arg Ala Pro Arg Leu Ala
20 25

<210> 8

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: BID BH3
consensus sequence

<400> 8

Ile Ile Arg Asn Ile Ala Arg His Leu Ala Gln Val Gly Asp Ser Met
1 5 10 15

Asp Arg Ser Ile Pro Pro Gly Leu Val Asn
20 25

<210> 9
<211> 26
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: HRK BH3
consensus sequence

<400> 9
Ala Ala Gln Leu Thr Ala Ala Arg Leu Lys Ala Leu Gly Asp Glu Leu
1 5 10 15

His Gln Arg Thr Met Trp Arg Arg Arg Ala
20 25

<210> 10
<211> 26
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: BOK BH3
consensus sequence

<400> 10
Arg Leu Ala Glu Val Cys Thr Val Leu Leu Arg Leu Gly Asp Glu Leu
1 5 10 15

Glu Gln Ile Arg Pro Ser Val Tyr Arg Asn
20 25

<210> 11
<211> 26
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: BIM BH3
consensus sequence

<400> 11
Pro Glu Ile Trp Ile Ala Gln Glu Leu Arg Arg Ile Gly Asp Glu Phe
1 5 10 15

Asn Ala Tyr Tyr Ala Arg Arg Val Phe Leu

<210> 12
 <211> 25
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: BAD primer
 (murine)

<400> 12
 gcctccagga tccaagatgg gaacc

25

<210> 13
 <211> 23
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: BAD primer
 (murine)

<400> 13
 ggagcgggta gaattccggg atg

23

<210> 14
 <211> 25
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: BAD primer
 (murine short)

<400> 14
 tggagaccag gatcccagag tagct

25

<210> 15
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Human PKI
 primer

<400> 15
 ctatgtggat ccttggtagc aatg

24

<210> 16
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Human PKI
primer

<400> 16

cctcatagac cttaagtaaa caaa

24

<210> 17

<211> 18

<212> PRT

<213> Homo sapiens

<400> 17

Gln Arg Tyr Gly Arg Glu Leu Arg Arg Met Ser Asp Glu Ser Val Asp
1 5 10 15'

Ser Phe

<210> 18

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: antibody
generating phosphopeptide

<400> 18

Gly Cys Gln Arg Tyr Gly Arg Glu Leu Arg Arg Met Ser Asp Glu Ser
1 5 10 15

Val Asp Ser Phe

20

<210> 19

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: ST-kinase
recognition motif

<400> 19

Leu Arg Arg Met Ser Asp
1 5

<210> 20

<211> 12

<212> PRT

<213> Human immunodeficiency virus

<220>

<223> Description of Artificial Sequence: Tat polypeptide

<400> 20

Tyr Gly Arg Lys Lys Arg Arg Gln Arg Arg Arg Gly
1 5 10